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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,312	02/15/2002	Robert L. Longardner	80459.03US2	1957
7590 10/19/2004			EXAMINER	
jefferson perkins			POKER, JENNIFER A	
piper rudnick p.o. box 64807			ART UNIT	PAPER NUMBER
chicago, IL 60664			2832	
			DATE MAILED: 10/19/200-	4

Please find below and/or attached an Office communication concerning this application or proceeding.

- w		MA
	Application No.	Applicant(s)
	10/069,312	LONGARDNER ET AL.
Office Action Summary	Examiner	Art Unit
	Jennifer A. Poker	2832
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a i  pply within the statutory minimum of thir  Id will apply and will expire SIX (6) MON  ute, cause the application to become AE	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. SANDONED (35 U.S.C. § 133).
Status		
<ul> <li>1) ⊠ Responsive to communication(s) filed on 23</li> <li>2a) ☐ This action is FINAL. 2b) ☐ The 23</li> <li>3) ☒ Since this application is in condition for allow closed in accordance with the practice under</li> </ul>	nis action is non-final. vance except for formal mat	
Disposition of Claims		
4) ☐ Claim(s) 1-26 is/are pending in the application 4a) Of the above claim(s) is/are withden 5) ☐ Claim(s) 1-26 is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Exami 10) ☑ The drawing(s) filed on 15 February 2002 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.  The oath or declaration is objected to by the	are: a)⊠ accepted or b)□ ne drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). I(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life.	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No  received in this National Stage
Attachment(s)		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Pager No(s)/Mail Data August 23, 2004</li> </ol>	Paper No.	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)

Application/Control Number: 10/069,312

Art Unit: 2832

#### **DETAILED ACTION**

#### General Status

- 1. This is a first action on the merits of RCE filed on August 23, 2004. Claims 1-26 are pending and are being examined.
- 2. This application is in condition for allowance except for the following formal matters:

### Oath/Declaration

It does not identify the mailing address of each inventor. A mailing address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing address should include the ZIP Code designation. The mailing address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.

It does not identify the city and either state or foreign country of residence of each inventor. The residence information may be provided on either on an application data sheet or supplemental oath or declaration.

## Allowable Subject Matter

3. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-11, no prior art of reference or combination thereof teaches a system for reducing the temperature of a coolant flowing through a power transformer cooling system, the system comprising a "first forced air heat exchanger connected to the transformer cooling system, a second liquid-to-liquid heat exchanger connected to the transformer cooling system, and a source of chillate connected to said second heat exchanger to provide chillate thereto for withdrawing heat from the coolant flowing through the second heat exchanger".

Regarding claims 12-20, no prior art of reference or combination thereof teaches a system for reducing the temperature of a coolant flowing through a power transformer cooling system, the

system comprising "a liquid-to-liquid heat exchanger connected to the transformer cooling system, the heat exchanger having a coolant inlet for receiving coolant at an elevated temperature from the cooling system, a coolant outlet for discharging coolant to the cooling system at a relatively lower temperature, a chillate inlet for receiving a liquid chillate, and a chillate outlet for discharging the chillate from the heat exchanger after absorbing heat energy from the coolant, and a source of liquid chillate connected to said heat exchanger to provide chillate thereto at a reduced temperature less than the relatively lower temperature".

Regarding claims 21-26, no prior art of reference or combination thereof teaches a method for reducing the temperature of a coolant flowing through a transformer cooling system; the method comprising the steps of "(1) passing the coolant through a liquid-to-liquid heat exchanger to reduce the temperature of the coolant (2) passing a chillate through the heat exchanger to extract heat energy from the coolant; and (3) cooling the chillate using an absorption chiller driven by a heat energy storage component".

### Conclusion

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

## Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Poker whose telephone number is 571-272-1997. The examiner can normally be reached on 4:30-3:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jap October 15, 2004

